

**ABSTRACT OF THE INVENTION**

A medical device production and supply information management system synchronous with manufacturing, planning and scheduling, product consumption forecast and component purchase to enable just-in-time inventory control at the manufacturing facility, vendor stocks, material/product tracking, distribution and shipping management, to reduce inventory at all points in the manufacturing distribution/delivery chain. The system is implemented using, preferably, Web-enabled information network and data communication with a programmer. Procedurally, a database is examined for any custom specifications required for a build-to-replenish or build-to-order. The custom specification, when received, will automatically initiate a build-to-order replenishment to match and replace the customized device implanted at that institution. Once an order is made, the manufacturing database will determine whether all components required to complete the order are available at the factory site located nearest the implanting institution. In the event components are not available, the manufacturing database issues an order to the component supplier.

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